

Product Change Notice (PCN)

件名: RH850/F1, R1, D1 シリーズ、LQFP 製品の Cu ワイヤ サプライヤ追加

発行日:12/4/2024

出荷開始予定日: 6/1/2025

改版履歴:初版(HPLM-2024-0018)

第 2 版(99 型名追加) 2 ページ目をご参照下さい。

変更内容の説明:

下記の通り RH850/F1, R1, D1 シリーズを対象として LQFP 製品の Cu ワイヤ サプライヤを追加致します。

項目	変更前	変更後
Cu ワイヤ サプライヤ追加	A 社	A 社、B 社

対象組立工場

Renesas Electronics Corporation Nishiki Factory

Renesas Semiconductor (Suzhou) Co., Ltd.

対象製品リスト: 付録欄“対象製品リスト”をご参照ください。

変更の理由: Cu ワイヤ サプライヤを追加することにより製品の安定供給を図るため。

外形、実装、機能、品質、信頼性への影響:

本変更による外形、実装、機能、品質、信頼性への影響はありません。

製品の識別方法: 製造履歴は製品のトレースコードを用いて照会可能です。

信頼性データについて: 付録欄“Q100 Qualification Test Results”をご参照ください。

サンプル出荷予定日: 対象外

製品/材料の化学物質データ: 弊社営業へお申し付けください。

ご注意:

- PCN をお客様にお渡しした後 30 日以内に受理の御連絡を頂けない場合は、変更内容を御承認頂いたものとみなして変更を実施させていただきます。
- お客様が PCN を受理されて承認手続きのための条件が有る場合は、PCN をお客様にお渡しした後 90 日以内に御連絡をお願い致します。90 日以内に何の御連絡もない場合も御承認頂いたものとみなして変更を実施させていただきます。
- 変更内容について御承認頂けない場合、最終注文数の御提示と御発注をお願い致します。

この通知に関するお問い合わせは、弊社営業、特約店までお願い致します。

追加製品リスト(99 型名)

R7F7010023AFP-C#KA4	R7F7010254AFP-C#KA2	R7F701686FAFP-C#KA1	R7F701695FAFP-C#AA1
R7F7010024AFP-C#KA4	R7F7010443AFP-C#KA2	R7F701687FAFP-C#AA1	R7F701695FAFP-C#BA1
R7F7010213AFP-C#KA4	R7F7010444AFP-C#KA2	R7F701687FAFP-C#BA1	R7F701695FAFP-C#KA1
R7F7010214AFP-C#KA4	R7F7010453AFP-C#KA2	R7F701687FAFP-C#TA1	R7F701A643AFP-C#AA1
R7F7010223AFP-C#KA4	R7F7010454AFP-C#AAT	R7F701688FAFP-C#AA1	R7F701A653AFP-C#AA1
R7F7010224AFP-C#KA4	R7F7010454AFP-C#KA2	R7F701688FAFP-C#BA1	R7F701A663AFP-C#AA1
R7F7010233AFP-C#KA4	R7F7010454AFP-C#KAT	R7F701688FAFP-C#TA1	R7F701A673AFP-C#AA1
R7F7010234AFP-C#KA4	R7F7010643AFP-C#AA8	R7F701689FAFP-C#AA1	R7F701A683AFP-C#AA1
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R7F701A323AFP-C#KA4	R7F701A793AFP-C#AA1	R7F701690FAFP-C#BA1	R7F701A723AFP-C#AA1
R7F701A324AFP-C#KA4	R7F701A803AFP-C#AA1	R7F701690FAFP-C#TA1	R7F701A733AFP-C#AA1
R7F701A333AFP-C#KA4	R7F701A813AFP-C#AA1	R7F701691FAFP-C#AA1	R7F701A743AFP-C#AA1
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R7F7010253AFP-C#KA2	R7F701686FAFP-C#BA1	R7F701694FAFP-C#KA1	

付録

対象製品リスト

RH850/F1,R1,D1 series :

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R7F7010643AFP-C#BA2	R7F7015484AFP-C#BA2	R7F7015433AFP-C#BA3	R7F7015673AFP-C#AA3
R7F7010643AFP-C#TA2	R7F7015484AFP-C#BA6	R7F7015433AFP-C#KA3	R7F7015673AFP-C#BA3
R7F7010643AFP-C#TA8	R7F7015484AFP-C#TA2	R7F7015434AFP-C#AA3	R7F7015673AFP-C#TA3
R7F7010693AFP-C#AA2	R7F7015484AFP-C#TA6	R7F7015434AFP-C#BA3	R7F7015674AFP-C#AA3
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R7F7015013AFP-C#AA2	R7F7015493AFP-C#TA2	R7F7015463AFP-C#BA3	R7F7015773AFP-C#AA3
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*** means ROM code

Q100 Qualification Test Results

AEC-Q100-REV-H

[Note : Qualification tests were performed using a representative product with the same wafer process and the same package structure, and also using generic data.]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP A – ACCELERATED ENVIRONMENT STRESS TESTS

PC	A1	JESD22 A113 J-STD-020	Preconditioning: (Test @ Rm) SMD only; Moisture Preconditioning for THB/HAST, AC/UHST, TC, &PTC ; Peak Reflow Temp=260°C	Min.MSL=3			MSL=3	-
THB or HAST	A2	JESD22 A101	Temperature Humidity Bias: (Test @ Rm/Hot) Ta=85°C, RH=85%, 1000hrs	3	77	231	0 of 231	-
AC or UHST or TH	A3	JESD22 A118	Unbiased Highly Accelerated Stree Test: (Test @ Rm) Ta=110°C, 85% RH, 264h	3	77	231	0 of 231	-
TC	A4	JESD22 A104	Temperature Cycle: (Test @ Hot) Ta=-65°C to 150°C, 500cyc or Ta=-55°C to 150°C, 1000cyc	3	77	231	0 of 231 0 Fails after TC (WBP)	-
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) Ta=40°C to 125°C, 1000cyc	1	45	45	0 of 45	* Applicable products only
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=150°C, 1000hrs or Ta=175°C, 500hrs	1	45	45	0 of 45	-

TEST GROUP B – ACCELERATED LIFETIME SIMULATION TESTS

HTOL	B1	JESD22 A108	High Temp Operating Life: (Test @ Rm/Cold/Hot) Ta=150°C, 1000hrs	3	77	231	0 of 231	-	
ELFR	B2	AEC-Q100-008	Early Life Failure Rate: (Test @ Rm/Hot) Ta=125°C, 48hrs	3	800	2400	0 of 2400	-	
EDR	B3	AEC-Q100-005	NVM Endurance & Data Retention Test: (Test @ Rm/Hot)	For HTOL	3	77	231	0 of 231	-
				For HTSL	1	45	45	0 of 45	-

TEST GROUP C – PACKAGE ASSEMBLY INTEGRITY TESTS

WBS	C1	AEC-Q100-001 AEC-Q003	Wire Bond Shear Test: (Cpk > 1.67)	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
WBP	C2	MIL-STD-883 Method 2011 AEC-Q003	Wire Bond Pull: (Cpk > 1.67); Each bonder used	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
SD	C3	JESD22 B102 JSTD-002D	Solderability: (>95% coverage) 8 hr steam aging prior to testing	1	15	15	0 of 15	-
PD	C4	JESD22 B100, JESD22 B108 AEC-Q003	Physical Dimensions: (Cpk > 1.67)	3	10	30	0 of 30	Cpk>1.67
SBS	C5	AEC-Q100-010 AEC-Q003	Solder Ball Shear: (Cpk > 1.67); 5 balls from min. of 10 devices	-	-	-	-	N/A
LI	C6	JESD22 B105	Lead Integrity: (No lead cracking or breaking); Through-hole only; 10 leads from each of 5 devices	-	-	-	-	N/A

TEST GROUP D – DIE FABRICATION RELIABILITY TESTS

EM	D1	JESD61	Electromigration:	-	-	-	Pass	Confirmed by process TEG
TDDDB	D2	JESD35	Time Dependant Dielectric Breakdown:	-	-	-	Pass	Confirmed by process TEG
HCI	D3	JESD60 & 28	Hot Carrier Injection:	-	-	-	Pass	Confirmed by process TEG
NBTI	D4	JESD90	Negative Bias Temperature Instability:	-	-	-	Pass	Confirmed by process TEG
SM	D5	JESD61,87 & 202	Stress Migration:	-	-	-	Pass	Confirmed by process TEG

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP E- ELECTRICAL VERIFICATION

TEST	E1	User/Supplier Specification	Pre and Post Stress Electrical Test:	All	All	All	0 of All	-
HBM	E2	AEC-Q100-002	Electrostatic Discharge, Human Body Model: (Test @ Rm/Hot); (2KV HBM / Class 2 or better)	1	3	3	0 of 3 ESD Level= HBM:2	HBM>2KV
CDM	E3	AEC-Q100-011	Electrostatic Discharge, Charged Device Model: (Test @ Rm/Hot); (750V corner leads, 500V all other leads / Class C4B or better)	1	3	3	0 of 3 ESD Level= CDM:C4B	Corner leads: 750V Pass All other leads:500V Pass
LU	E4	AEC-Q100-004	Latch-Up: (Test @ Rm/Hot)	1	6	6	0 of 6	-
ED	E5	AEC-Q100-009 AEC-Q003	Electrical Distributions: (Test @ Rm/Hot/Cold) (where applicable, Cpk>1.67)	3	30	90	Cpk>1.67	-
FG	E6	AEC-Q100-007	Fault Grading:	-	-	-	>98%	-
CHAR	E7	AEC-Q003	Characterization: (Test @ Rm/Hot/Cold)	-	-	-	Pass	According to Renesas standard procedure
EMC	E9	SAE J1752/3	Electromagnetic Compatibility (Radiated Emissions)	1	1	1	0 of 1	-
SC	E10	AEC Q100-012	Short Circuit Characterization	-	-	-	-	N/A
SER	E11	JESD89-1 JESD89-2 JESD89-3	Soft Error Rate	1	3	3	Pass	* Applicable product only
LF	E12	AEC-Q005	Lead (Pb) Free: (see AEC-Q005)	-	-	-	Pass	Solderability: See SD (C3) result. Solder heat resistance: N/A (Wave Solder is Not recommended.) Whisker: Performed on product TEG with test method based on JESD201.

TEST GROUP F – DEFECT SCREENING TESTS

PAT	F1	AEC-Q001	Process Average Testing: (see AEC-Q001)	All	All	All	Reject units outside PAT limits	Apply to mass production according to Renesas standard procedure
SBA	F2	AEC-Q002	Statistical Bin/Yield Analysis: (see AEC-Q002)	All	All	All	Reject units outside criteria	Apply to mass production according to Renesas standard procedure

TEST GROUP G – CAVITY PACKAGE INTEGRITY TESTS (for Ceramic Package testing only)

MS	G1	JESD22 B104	Mechanical Shock: (Test @ Rm)	-	-	-	-	N/A
VFV	G2	JESD22 B103	Variable Frequency Vibration: (Test @ Rm)	-	-	-	-	N/A
CA	G3	MIL-STD-883 Method 2001	Constant Acceleration: (Test @ Rm)	-	-	-	-	N/A
GFL	G4	MIL-STD-883 Method 1014	Gross and Fine Leak:	-	-	-	-	N/A
DROP	G5	-----	Drop Test: (Test @ Rm) MEMS cavity parts only. Drop part on each of 6 axes once from a height of 1.2m onto a concrete surface.	-	-	-	-	N/A
LT	G6	MIL-STD-883 Method 2004	Lid Torque:	-	-	-	-	N/A
DS	G7	MIL-STD-883 Method 2019	Die Shear:	-	-	-	-	N/A
IWV	G8	MIL-STD-883 Method 1018	Internal Water Vapor:	-	-	-	-	N/A